

INTT Preparation Status and Plan

RIKEN/RBRC

Itaru Nakagawa

Schedule

- ~ end of March : INTT ladder commissioning with calibration
- 1st ~ 2nd week of April : Daily calibration
 - Any activities doesn't require platform access?
 - LV Distribution module install for beam clock board power (Steve) and implementation of control to ROC LV GUI (Mai/Maya)
 - Polish up LV GUIs, GUI control of the filter module (Steve/Wei-Che)
 - Database developments for the calibration, mapping, online parameters
 - sPHENIX sphnxdbmaster (Martin)
 - Felix development
 - Expert GUI
 - ROC spare testing in the silicon lab
 - Software developments
 - 25cm Conversion cable assembly?
 - Integration of the mapping spreadsheets -> SQL database
 - Preparation for the beam commissioning.
- 4th week : preparation for expert shift

LV/Bias Control

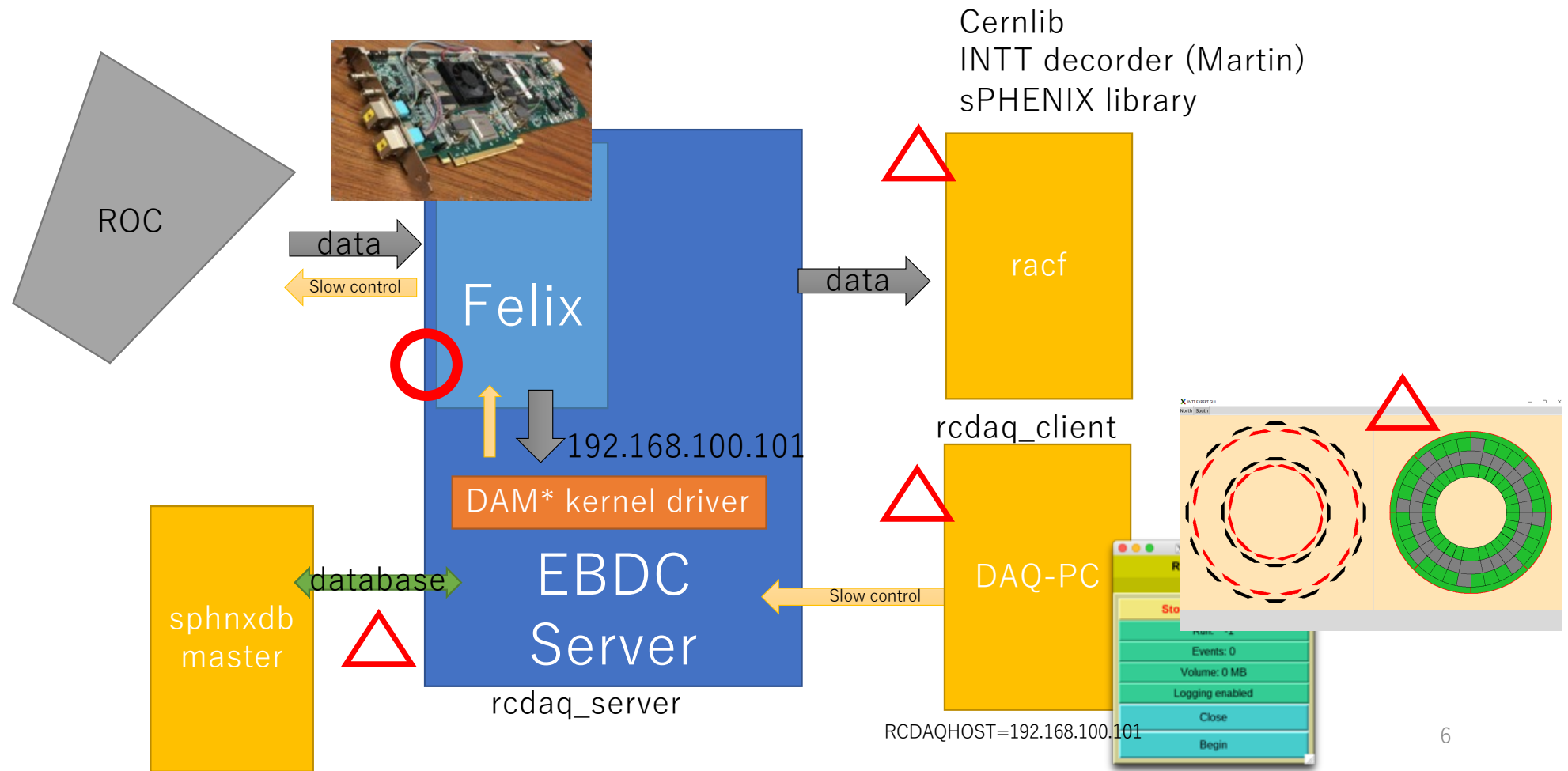
	GUI Status	Control	Trip Limit	Warning Threshold	Recording
Bias	✓	✓	✓		
ROC LV	✓	✓	N/A?	Mai/Maya	
FPHX Power (Distribution Module)	✓	✓	N/A?	Jaein	
FPHX Power (Filter Module)	✓	Steve			

Recording Strategy

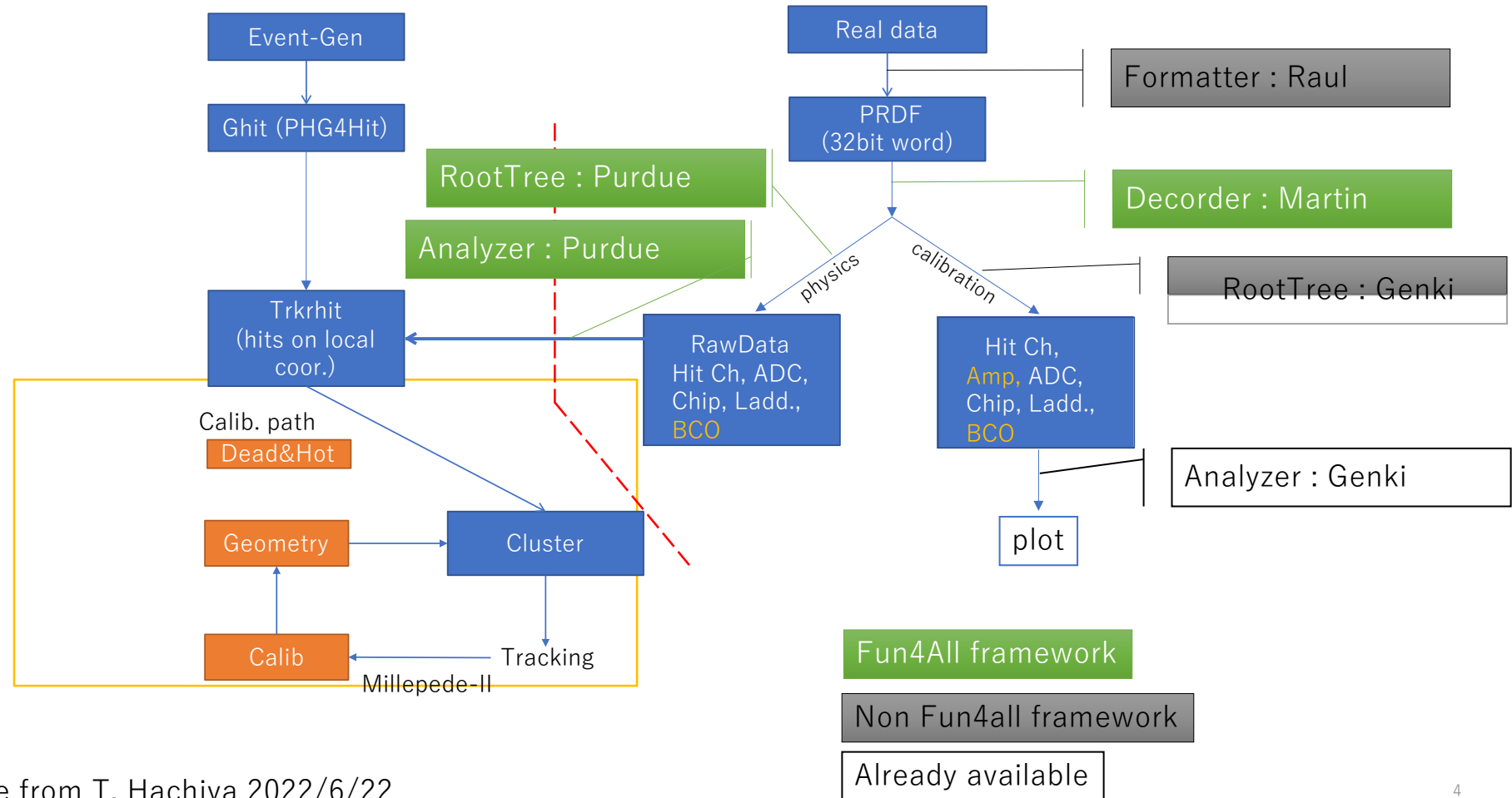
- Contact with Steve for his plan how to log current/voltage values measured current/voltages.
- These values supposed to be saved in HV/LV database.
- Portable chart application to monitor the stability (sPHENIX responsibility)
- Based on the stability, we may want to optimize the warning threshold. (INTT Group responsibility)

DAQ Development status

1008 DAQ Configuration



Data Flow for INTT clustering in real data

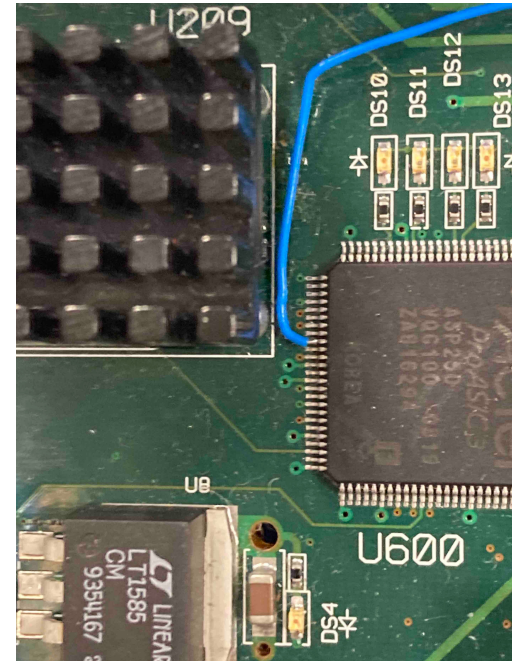


ROC Spares

ROC#6

- Original Class-1 RC-0S ROC (replaced by ROC#26)
- Blue jumper cable was broken during installation or commissioning.
- Sal fixed the soldering.
- To be tested at the silicon lab as the 1st choice spare in near future.

Blue Jumper

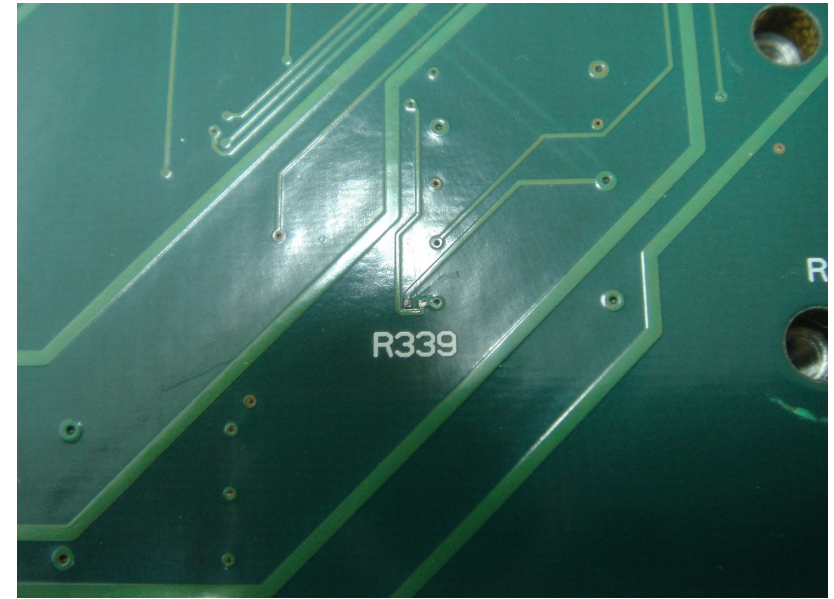
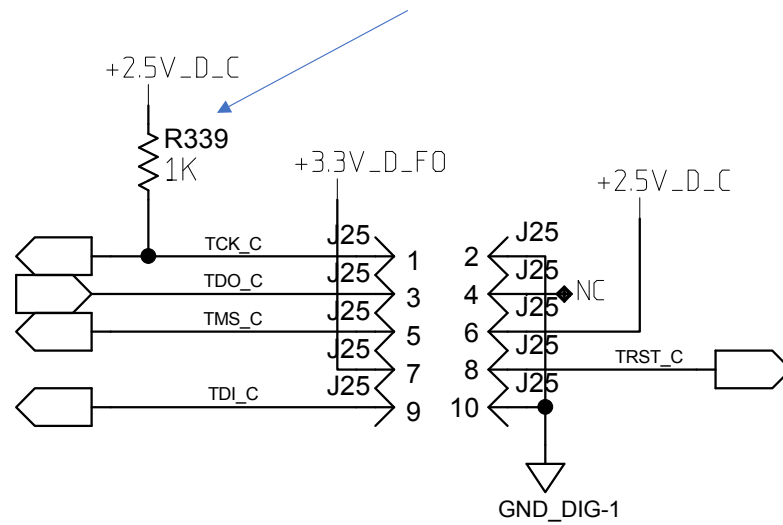


ROC Spare

- ROC#11
 - Originally used in Taiwan
 - Unupgraded regulators for FPHX.
 - Attempted to upgrade regulators in BNL, but gave up due to a half years of lead time to get regulators in US market.
 - Itaru hand carried it back to Japan and it is under regulator replacement by Japanese company. They have ~50 regulator stocks.
 - Found a missing register in Column-C circuit. (harmless for normal operation, but to be recovered).
 - Expected delivery in the first week of April.
 - Itaru will again hand carry it to BNL on April 10th.
 - To be tested in RIKEN as much as we can after the delivery.

R339

ダンピング抵抗



J25: JTAG port for Data FPGA-C
TCK : Clock

	Original	Alternative
R339	CRCW02011K00FNED	RK73H1JTDD1001F

代用品で問題ないと判断し、RK73H1JTDD1001Fを採用

Run-23 Page



<https://sphenix-intra.sdcc.bnl.gov/WWW/run/2023/>

sPHENIX e-log

Several logbooks are defined on this host.
Please select the one to connect to:

Logbook	Entries	Last submission
Run 2023 Log	2	Fri Mar 24 11:49:10 2023 by Stefan
Run 2023 Logbook		
HCAL	1645	Thu Mar 30 15:19:28 2023 by Silas
EMCAL	13	Mon Nov 22 09:41:40 2021 by John Haggerty
EMCAL Logbook		
MVX	130	Fri Mar 17 15:43:22 2023 by Zhaozhong Shi
MVX Logbook		
INTT	59	Thu Mar 30 18:27:22 2023 by JosephB
INTT Logbook		
BBOXtest	1	Thu Dec 2 08:32:06 2021 by Martin
BBOXtest Logbook		
DAQ	2	Fri Mar 24 12:14:08 2023 by J. Kuczewski
sPHENIX DAQ Logbook		
T1044_2017	1680	Tue Feb 21 10:40:46 2017 by John Haggerty
T1044 (2017) Fermilab test beam logbook		
sPHENIX_BT2014	98	Sat Mar 1 16:59:24 2014 by John Haggerty
2014 Beam Test Fermilab logbook		
sPHENIX_BT2016	2153	Mon May 2 23:47:48 2016 by John Haggerty
2016 Beam Test Fermilab logbook		
sPHENIX_BT2017	26	Fri Jan 6 17:47:20 2017 by Abhisek
2017 Beam Test Fermilab logbook		
T1044_2018	492	Mon May 21 01:05:18 2018 by John Haggerty
T1044 (2018) Fermilab test beam logbook		

<https://sphenix-intra.sdcc.bnl.gov/WWW/elog/>

Run 2023 Logbook, Page 1 of 1

New | Find | Select | Import | Config | Last day | Help

Full | Summary | Threaded | Hide attachments

ID	Date	Author	Subject	Run
2	Fri Mar 24 11:49:10 2023	Stefan	HCAL subsystem status	

with rack cooling water chilled, the 3 HCAL racks (2W2, 2E2, 3B4) are now to be left on at all times (with doors closed).
Detector LV and bias are to be left off when not in use.

1 Thu Mar 23 14:55:33 2023 John Haggerty Run 2023 elog created

I created the elog for Run 2023. Testing of the INTT is taking place in preparation for the installation of the MVX next. Power is on to all the racks, and ECW is flowing to them.

Attachment 1: IMG_2729.jpg

<https://sphenix-intra.sdcc.bnl.gov/WWW/elog/Run+2023+Log/>